APR. 25. 2005 4:49PM

+1-212-319-5101 customer 01933

APP 2 5 2005/0. 4450/190 (RP. 1/8) ved for the through 3/31/2007. OMB 0851-0021

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

TRANSMITTAL LETTER TO	THE UNITED STATES	ATTTORNEY'S DOCKET NUMBER 05021/HG
DESIGNATED/ELECTED C CONCERNING A SUBMISSION	NUNDER 35 U.S.C. 371	U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/522,698
INTERNATIONAL APPLICATION NO. PCT/JP2003/011881	INTERNATIONAL FILING DATE 18 September 2003	PRIORITY DATE CLAIMED 20 September 2002
	ELENGTH CONVERSION ELEMEN	
· · · · · · · · · · · · · · · · · · ·		
Sun	ao KURIMURA; and Masaki HARAI	D/US) the following items and other information:
	coming a submission under 35 U.S.C. 37	
2. This is a SECOND or SUBSEQUENT and		
3. This is an express request to begin nation (5), (6), (9) and (21) indicated below.	nal exemmation procedures (35 U.S.C. 3/	((i)). The stompsion must move hemo
4. The US has been elected (Article 31).	,	
5. A copy of the International Application	as filed (35 U.S.G. 371(c)(2))	
a. (a altached hereto (required o	only if not communicated by the laternation	nal Bureau).
h. has been communicated by t		<u> </u>
	ation was filed in the United States Receiv	
	International Application as filed (95 U.S.	C; 371(c)(2)).
a. La attached hereto.		
	ed under 35 U.S.C. 154(d)(4).	(DT 11 C C 1971/-VGW
•	national Application under PCT Article 19	
<u> </u>	ed only if not communicated by the Interna	adonal bureau).
b. have been communicated b		ments have NOT evaluated
· · —	ver, the time timit to making out amount	Historian cont articles.
d. 🔲 have not been made and w	a amendments to the dalms under PCT A	rticle 19 (35 U.S.O. 371(c)(3))-
9. An eath or declaration of the inventor(annexes of the International Preliminary	Examination Report under PCT
An English language translation of the Article 36 (35 U.S.C. 371(c)(5)).	Allicable of the literature of the literature of	
items 11 to 20 below concern document(s)	or Information Included:	
11. X An Information Disclosure Statement		
12. An assignment document for recording	g. A separate cover sheet in compliance v	with 37 CFR 3.28 and 3.31 is included:
13. A preliminary amendment.		
14. An Application Data Sheet under 37 C	OFR 1.76.	
15. A substitute specification.		1
16. A power of attorney and/or change of	godress letter.	13fer 2 and 37 CFR 1.821- 1.625.
	uence listing in socordance with PCT Rule national Application under 35 U.S.C., 154(c	
	patransiation of the international application	
I	PERTIFICATE OF F2	ACSIMILE TOTAL PAGES: 0
20. Cther items or information:	+ Cwhere continue	NO. 1-703-072-9306 this paper is boing facsimile to Patents and Trademarks Office
	on the date note	1 60100
	Ih >	1/1/Mm
	Attorney: HERBER	T-GOODWIN .

APR. 25. 2005 4:50PM +1-212-319-5101 customer 01933

U.S. Patent shall be perwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. ATTORNEY'S DOCKET NUMBER INTERNATIONAL APPLICATION NO. U.S. APPLICATION NO. (if known, see 37 CFR 1.5) PCT/JP2003/011881 05021/HG 10/522,698 21. The following fees are submitted: (a) Basic national fee.......\$300.00 \$ 300.00 200.00 S 500.00 \$ \$ 1000.00 TOTAL OF ABOVE CALCULATIONS = Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Number of each additional 60 or fraction RATE Total Sheets Extra sheets thereof (round up to a whole number) x \$250.00 \$ /50 = -100 = .00 Sorcharge of \$130.00 for furnithing the eath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(o)). 5 .oo RATE 3 NUMBER EXTRA NUMBER FILED CLAIMS ao. \$50.00 \$ - 20 = Total claims \$.00 \$200.0b 0. Independent claims 3 .00 \$360.00 MULTIPLE DEPENDENT CLAIM(8) (if applicable) TOTAL OF ABOVE CALCULATIONS = \$.00 Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2. ٥o. 400. SUBTOTAL = \$ Processing fee of \$130,00 for furnishing the English translation later than 30 months from the earliest \$.00 claimed priority date (37 CFR 1.492(f)). TOTAL NATIONAL FEE = ,00 Foe for recording the enelogist estimated (37 CFR 1.21(h)). The assignment must be accompanied .00 by an appropriate cover sheet (37 GFR 3.28, 3.31). \$40.00 per property .00 TOTAL FEES ENCLOSED = Amount to be \$ refunded: 00 Amount to be \$ 00 charged: to cover the above fees is enclosed. A check in the amount of \$ ____ to cover the above fees. Ptease charge my Deposit Account No. _____ A duplicate copy of this sheet is enclosed. In the amount of \$_ The Commissioner is hereby authorized to ottarge any additional fees which may be required, or credit any overpayment to Deposit t Account No. __06/378_. A duplicate copy of this sheet is enclosed. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.498 has not been met, a petition to revive (37 CFR 1.137(5) or (b)) must be filed and granted to restore the international Application to pending status. SEND ALL, CORRESPONDENCE TO: CUSTOMER NO. 01933 SIGNATURE Z **Herbert Goodman** Herbert Goodman Frishauf, Holtz, Goodman & Chick P.C. NAME. 767 Third Avenue 17,081 25th Floor

FORM PTO-1380 (REV. 12-2004)

New York NY 10017-2023

REGISTRATION NUMBER

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.

10/522,698

Applicant

Sunao KURIMURA et al

Filed .

March 11, 2005

For

WAVELENGTH CONVERSION

ELEMENT

Docket No.

05021/MJC

Customer No.:

01933

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

SIR:

RECEIVED CENTRAL FAX CENTER

CERTIFICATE OF FACSIMILE TRANSMISSION TO NO. 1-703-872-9306

APR 2 5 2005

TOTAL PAGES: 8
I hereby certify this
paper is being facsimile
transmitted to the
Patents and Trademarks Office
on the date notes below.

Dated: April 25_ 2005

In the event that this Paper is late filed, and the necessary petition for extension of time is not filed concurrently, herewith, please consider this as a Petition for the requisite extension of time, and to the extent not tendered by check attached hereto, authorization to charge the extension fee, or any other fee required in connection with this Paper, to Account No. 06-1378.

Submitted herewith is a copy of the English language International Search Report issued in International Application No. PCT/JP2003/011881, on which the present U.S. national phase application is based.

Copies of the references cited in the International Search Report should have been supplied by WIPO to the USPTO.

Therefore, copies of the cited references in the International Search Report should be on file in the United States, in accordance with current practice.

Attached hereto are Forms PTO/SB/08A and PTO/SB/08B listing the particulars of the references cited in the International Search Report. As mentioned above, copies of the references should already be in the U.S. file, supplied by WIPO.

It is respectfully requested that the Examiner return an initialed copy of the attached Forms PTO/SB/08A and PTO/SB/08B to , confirm that the publications supplied by WIPO and listed therein have been considered and made of record.

Respectfully submitted,

HERBERT GOODMAN Reg. No. 17,081

Frishauf, Holtz, Goodman & Chick, P.C. 767 Third Ave., 25th floor New York, NY 10017-2023

Telephone: (212) 319-4900 Facsimile: (212) 319-5101

Enc: Forms PTO/SB/08A and PTO/SB/08B; International Search Report

ÁPR.	25.	2005	4:51PM
UI IV	61.	2007	マ・ノリリが

+1-212-319-5101 customer 01933

NO. 4450 P. 5/8

Please type a plus sign

inside this box →

PTO/SB/08A (08-00)

					q. p	. Patent and Trademark	k Qff	ice: U.S. DEFAR:	LMENT, OR COM	MER
Substi	itute	for F	orm 1449A/PTO	App]	lica	tion Number	10/	522,698		
Infor	MATI	ON D	ISCLOSURE	Fil	ing :	Date	Mar	ch 11, 2005		
STATE	EMENT	BY A	APPLICANT	Fire	st N	amed Inventor	Sur	ao KURIMURA e	t al	
				Grou	up A	rt Unit				
				Exar	nine	r Name .				
Sheet		.1	of 2	Aţto	orne	y Docket Number	050	21/HG	•	
		,	· ····································	,.s. 1	PATI	ENT DOCUMENTS	1			
Boom. , Inits*	Cite Rol	Docum	ent Number		Kind lode²	Name of Patentee or Applicant	r ·	Publication Date ps-pb-fryr	Relevan Fortion	
•	٠	5,38	2,334			PIONEER BLEC. CO	RP .	01-17-1995		
		2001	/005 545 3	:		MATSUSHITA ELEC.		12-27-2001		
	,		•	ļ						
					, •				1	
			,	ŀ			.			
	:		·					· · · · · · · · · · · · · · · · · · ·		
1111	,	, ,	FO	REIGN	PA	TENT DOCUMENTS	:		•	
Expo	tite #5	atte:	Document Number		Kind ode	Name of Patentee or Applicant	r	Publication Date MH-DD-1771	Relevant Portion	7
•		JΡ	11-212128	1	A	MITSUBISHI MAT.		08-06-1999		l
		JP	2002-122898	1	A	NIKON CORP.		04-26-2002		l
	! .	JΡ	03~237437	, 2	A,	ASAHI GLASS CO.		10-23-1991		
` <i>.</i>			•			,		•		
					•	,	İ			
			,			,				
							٠,			
Examir Signat		<u>, </u>		•		Date Considered				

DATE MAILED: April 25,

^{*} PLANTINER: Initial if reference commidered, whether or not citation is in conformance with MPEP 600. Draw line through disaution if not in conformance, and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. * Sac kinds of U.S. Papent Documents. * Batter Office that ignued the document, by the two-locter code (WIFO Standard St. i). * For Japanese patent documents, the inditation of the year of the reign of the Emperor must precede the Serial number of the patent document, * Wind of document by the appropriate symbols as indicated on the document under wife Spandard St. 16 if possible. * Flace & Check have it English translation is attached.

NO. 4450 .P. 6/8 PTO/SB/08B (08-00)

U.S. Patent and Trademark Office: U.S. DEBARTMENT OF COMMERCE

Substitu	te for	Form	144	9A/PTO	Applicati	on Numbe	r	10/522	698			
INFORMA					Filing Da	te.		March 1	1, 2005			
STATEME	INT B	Y APP	LICA	ANT	First Nam	ed Inven	tor	Súnao I	URIMURA	et al		
•	•				Group Art	Unit '			• • • • • • • • • • • • • • • • • • • •			
,		,			Examiner	Name						
Sheet	. 2		о£	. 2	Attorney :	Docket N	umber	05021/1	IĠ			
	-	OTHE	R D	OCUMENTS	- NON-PA	TENT LI	TERATU	RE DOC	UMENTS			
Examiner Initials'	Cite No.1	Incl	ude .m ge (s) .	ame of author , volume issu	(in CAPITAL e number(s),	LETTERS), publisher,	title of city and	article, /or count	title of i	tem, dat ublished	е,	T2
,	:	Tadas Seigo	hi K	URIMURA et sho", Oyo	al, "Shiga butsuri, Vo	i Hacho	Henkan No. 5, p	o Mezasi p. 548-	hita Gij 552 (200	i Iso 0).		
• .				•						•		
		plana	r wa	L.et al, ": veguides, ; 1991).	Second-har Appl. Phys	nonic ge Lett.,	neration Vol. 59	in ion , No. 4	-implant , pp. 38	ed qua: 4-386	rtz	
•	·.	(22 •					·			•		
, ;					•	•		•				
11 3				· · · .			•		•	•		
												Ì
	, '		`			•	•				. 1	
	,	,		•	•		•			•		:
		•			•			,	•			
				•		, ,	•					
				,				•				
							•		٠.		,	
	<u> </u>				:	T ²	7.1					
Examiner				•		Date Conside	ered					

' Unique citation désignation number. ' Place a check here if English translation is attached-

April 25, DATE MAILED:

^{*} MEMNINER, Initial if document compidered, whether or por citation is in conformance with MPRF 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicanc.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/11881

A. CLAS	SSIFICATION OF SUBJECT MATTER .Cl' G02F1/377					
J	.CI G02F1/3//					
According	to International Patent Classification (IPC) or to both	national Algorification and	TDC			
	OS SEARCHED	IIMIODO GESSITUATOS AIX				
Minimum o	documentation searched (classification system follower	d by classification symbol	s)			
Int.	.cl ⁷ G02F1/37					
			•	•		
Documenta	ation scarched other than minimum documentation to the	he extent that such docum	ents are included	in the fields searched		
Jits	uyo Shinan Koho 1922-1996 i Jitsuyo Shinan Koho 1971-2003	Toroku Jitsuyo	Shinan Koh	0 1994-2003		
Electronic	data base consulted during the international search (nar ST, INSPEC, USPTO, Web Patent I	me of data base and, when	e practicable, sea	nch terms used)		
), Indept, Odriv, web ratemt i	Dacabase				
C. DOCU	MENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where a			Relevant to claim No.		
X	JP 11-212128 A (Mitsubishi R 06 August, 1999 (06.08.99), (Family: none)	Materials Corp	.),	1-5		
Y	JP 2002-122898 A (Nikon Corp 26 April, 2002 (26.04.02), (Family: none)					
Y	Tadashi KURIMURA et al., "Sh Mezashita Giji Iso Seigo Sui Vol.69, No.5, 2000, pages 54	sho", Oyo buts		1-5		
Y	JP 03-237437 A (Asahi Glass 23 October, 1991 (23.10.91), (Family: none)	Co., Ltd.),		· 2		
Further		See patent family				
	er documents are listed in the continuation of Box C.	See patent family				
"A" docume	categories of cited documents: on defining the general state of the art which is not red to be of particular relevance	priority date and no	t in conflict with th	mational filing date or to application but cited to erlying the invention		
	document but published on or after the international filing	"X" document of particu	lar relevance; the c	elaimed invention cannot be red to involve an inventive		
"L" docume	ent which may throw doubts on priority claim(s) or which is establish the publication date of another citation or other	step when the docum	nent is taken alone			
special i	reason (as specified) ent referring to an oral disclosure, use, exhibition of other		re an inventivo step	when the document is		
means "P" docume	ent published prior to the international filing date but later priority date claimed	combination being of document member of	obvious to a persea	skilled in the an		
Date of the ac	ctual completion of the international search	Date of mailing of the in	iternational searc	th report		
14 No	ovember, 2003 (14.11.03)	02 Decembe	æ, 2003 (02.12.03)		
Name and ma	niling address of the ISA/	Authorized officer		·		
	nese Patent Office					
Facsimije No	,	Telephone No.				

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/11881

ategory	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Ÿ	Babsail, L. et al., Second-harmonic generation in ion-implanted quartz planar waveguides, Appl. Phys.Lett., Vol.59, No.4, 22 July, 1991 (22.07.91), pages 384 to 386	2
Y	US 5382334 A (PIONEER ELECTRONIC CORP.), 17 January, 1995 (17.01.95), Column 6, lines 26 to 38 & JP 06-186603 A	3,4,5
Y	US 2001/0055453 A1 (MATSUSHITA ELECTRIC Industrial Co., Ltd., NGK INSULATORS Ltd.), 27 December, 2001 (27.12.01), E JP 2002-250949 A	3,5
	· ·	
	•	